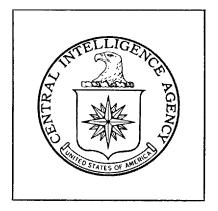
#41



DIRECTORATE OF INTELLIGENCE

Imagery Analysis Report

	Naval Base and Shipyard 402
	Severodvinsk, USSR
25X1 . [

DECLASS REVIEW by NIMA/DOD

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IMAGERY ANALYSIS SERVICE

May 1968

NAVAL BASE AND SHIPYARD 402

SEVERODVINSK, USSR

25X1

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SHIPYARD : NAVAL BASE AND SHIPYARD 402
IJOATION : SEMEMONYINEK, USER
GEO COORDS: 64-380 03-90 CB

REY TO NAMESERED ANNOIATIONS ON FIGURE 2

1. Unidentified Cylindrical Object (diameter approximately This object is positioned on its puright (transverse) axts min 18 located on a flater on the railroad spur leading into the souther assembly building. The small diameter of the railroad spur leading into the souther assembly building. The small diameter of the railroad spur leading into the souther assembly building. The small diameter of the same assettion of submarine Publication of the country of the same as a component other than a section of submarine pressure buil.

2. Jouanile Frame for Submarine Hull (outer diameter approximately feet; inner diameter roughty feet; inner diameter roughty feet; inner diameter roughty feet; inner diameter roughty feet; inner diameter assettion of the frame ris (approximately in width) four large prior of the frame ris (approximately in width) four large prior of the frame ris (approximately in width) four large prior of the frame ris (approximately in width) four large prior of the frame ris (approximately in width) four large prior of the frame ris (approximately in width) four large prior of the frame ris (approximately in width) four large prior of the frame risk (approximately in width) four large prior of the frame risk (approximately in width) four large prior of the frame risk (approximately in width) four large prior of the frame risk (approximately in width) four large prior of the section on graphy of the attempt of the section of the attempt of the attempt of the attempt of the section of the sectio

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FIGURE 2A. SUBMARINE HULL SECTIONS, SEVERODVINSK SHIPYARD 402. ARTIST'S CONCEPTS FROM MNOTATIONS AND NUMBERS KEYED TO FIGURE 2 OF THIS REPORT.

25X1

25X1

25%
25X

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KEY TO FACILITY ANNOTATIONS ON FIGURE 2

25X1

A. New Building Under Construction
The basic dimensions of the building outlined by the skeletal upright frame supports are approximately _____feet. 25X1

New Building in Final Stages of Construction
Basic dimensions are approximately 225 by 100 feet. See Annotation 25X1

FIGURE 2. REAR OF MAIN CONSTRUCTION HALL, SHIPYARD 402, SEVERODVINSK, USSR, 25X1 25X1

Approved For Release 2003/05/15 : CIA RDPZ9T00919A000200410001-5

25X1 Approved For Release 2003/05/15 : CIA-RDB 29770919A000200410001-5 TOP SECRET 25X1 SHIFYARD : NAVAL BASE AND SHIFYARD 402 LOCATION : SEVERODVINSK, USSR GEO COORDS: 64-35N 039-50E KEY TO NUMBERED ANNOTATIONS ON FIGURE 3 1. Snow-Cleared Slot for Sliding Door to South Bay of Main Construction Show-Cleared Slot for Shaing poor to beath Lay of the Hall Note that the corresponding slot for the north bay remains uncleared. Based upon the undisturbed snow pattern visible between the tracks in front of the Main Construction Hall and the entrance to the launch basin it is believed that this activity is in preparation for taking a vessel out from the south side of the Main Construction Hall. See Annotation 2 below. The track has been recently cleared of snow for a distance of approximately 500 feet from the construction hall door. The last sighting of a submarine on this track was in 25X1 ILLEGIB Keel Block Arrangement for Very Large Floating Crane This is the first sighting of keel blocks for the very large floating crane at this location in the launch besin. The floating crane has been observed previously only in connection with submarine activity in this launch besin. The relationship of the crane keel block arrangement to the launchay tracks appears indicative of a lift operation at the submarine's extremity rather than an emidships lift as previously indicated by the crane placement observed in 25×1 KEY TO FACILITY ANNOTATION ON FIGURE 3 Main Construction Hall The melting snow pattern visible on the roof of the Main Construction Hall is less advanced over the northeastern quarter of the building indicating that less heat is present in this section of the building. Although wind and a very slight peak in the roof could account for some irregularities in the snow melting pattern, the noticeable contrast between snow cover and bore roof along a line running down the centerline of the long axis of the building appears more inmicrative of a temperature difference within the building. 25X1 The same phenomenon was even more pronounced in [

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when the northwesternmost quarter of the building had more snow on it than on the remaining three-fourths of the roof.

25X1

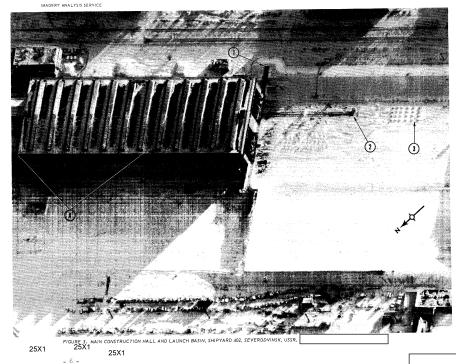
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	SHIPYARD : NAVAL BASE AND SHIFYARD 402 LCCATION : SEVERODVINEK, USSR CEO COORDS: 64-35H 039-50E
3€X1	KEY TO ANNOTATIONS ON FIGURE 4 1. Probable Material Handling Barge (IOA approximately 105 feet) This is the same wide, flat-decked, superstructure-off borge as that sighted along the East Cauy by the hull sections in See For located on the deck amidehipe. The chyest further this is personantified objects in the province of the section of the secti
25X1	indicates that it is concave; therefore, the overall impression gained is that of looking down at a partial cylinder. 2. Catemaran Vessel
25X1	The inner frames are in the retracted node. This vessel and coured parallel to the East Quay in See Annotation 5, Figure
25×1 25×1 25×1	4. Unidentified AO (ICA approximately 215 feet) This white was berthed in the identical position in Annotation -, bovever, since this ship has been sighted at Berthing Space No. 2 slong the wide Charle.
25X1	DDI/IAR-83044).
25X1	7. Floating #16 Crame This crame was last observed (but not reported) in this same position in it had been at the restorn end of
25X1	the hast any just outboard of the area usen to store submarine hull sections. 6. Three Floating Vertical Screens
	7. Tugbost (visible ICA approximately 140 feet)

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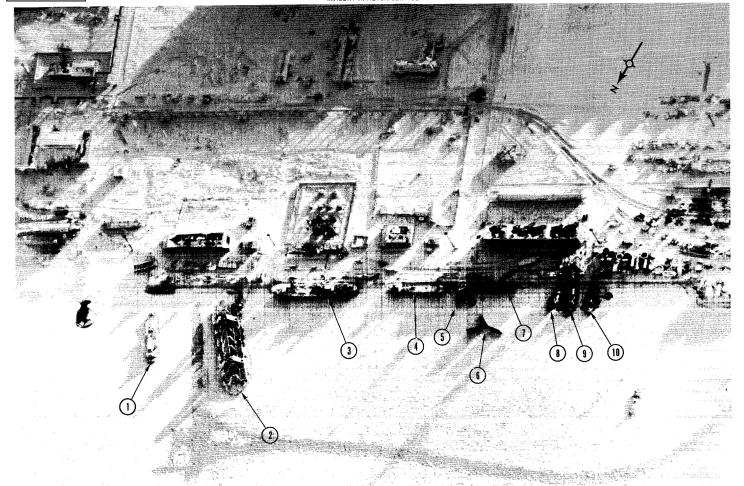


FIGURE 4. EAST QUAY, SHIPYARD 402, SEVERODVINSK, USSR,

- 8 **-**

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25X1

25×1

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	IMAGERY ANALYSIS SERVICE
	KEY TO HULL SECTIONS ON EAST QUAY (ANNOTATIONS ON FIGURE 4A)
1.	Upright Hull Section (outer diameter 25X1
2.	Upright Hull Section (outer diameter
3.	Upright Hull Section (maximum diameter 25 feet; inner diameter
	feet) 25X1
4.	Possible Upright Section (could not be measured) 25X1
5.	Upright Hull Section (outer diameter
6.	Upright Hull Section (cuter diameter This section does not equate to any section observed on the quay in 25X1
7.	Hull Section on Longitudinal Axis (maximum diameterlength 15 feet) This is believed to be the same section as that sighted in this position in Lighting conditions are better on this coverag (with respect to this object) in delineating the side nearest the quay; this accounts for the larger diameter now obtained. See Anno
8.	Probable Hull Section on Longitudinal Axis (length diameter could not be determined) 25X1
9.	Large Submarine Hull Section on Longitudinal Axis (hull diameter
	Four black concentric bands, probably supports for outer frames, are spaced apart along the curved outer hull surface. They do not have any measurable height.
le.	Probable Large Upright Hull Section (diameter This is not the same section as that observed in this same position
11.	Upright Hull Section (diameter December 1) No section occupied this position on the quartic
	The section coordined rule lostified of the field at

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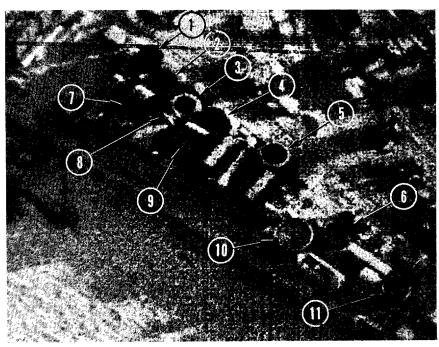


FIGURE 4A. HULL SECTION ON EAST QUAY

NOTES: (1) All measurements given for Figure 4A are approximate.

(2)	All references to similar hull sections observed in
	identical positions on are keyed to the annotation
	numbers of Figure 3, CIA/PIR-77008, Submarine Hull Section,
	Severodvinsk Naval Base and Shipyard 402, Severodvinsk,

25X1

25X1	Approved For Release 2009705/66RETA-RDP79T00919A000200410001-5	25X1
	IMAGERY ANALYSIS SERVICE	
	SHIPYARD: NAVAL BASE AND SHIPYARD 402 LOCATION: SEVERODVINSK, USSR GEO COORDS: 64-35N 039-50E	25 X1
	KEY TO NUMBERED ANNOTATIONS ON FIGURE 5	
	1. Probable OKHTENSKTY Class ATR (apparent LOA approximately 150 feet)	
25X1	2. Unidentified Probable AG	
25X1	3. Unidentified Auxiliary (LOA approximately 250 feet) In this ship was on blocks on the unflooded shallow side of the Main Launch Basin.	25X1
	KEY TO FACILITY ANNOTATION ON FIGURE 5	
	A. Pilings for New Structure Under Construction These pilings have been erected since	25X1

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	TOP SECRET 25X1	
L	IMAGERY ANALYSIS SERVICE 25X1	
]	SHIPYARD : NAVAL BASE AND SHIPYARD 402 LOCATION : SEVERODVINSK, USSR GEO COORDS: 64-35N 039-50E	25X1
	KEY TO ANNOTATIONS ON FIGURE 6	-
]	Possible ADG (LOA approximately 25X1 25X1	
2	2. Rectangular Work Barge This barge was last observed in the middle of the estuary at one end of the catamaran vessel.	
3	3. Unidentified Probable AG (LOA approximately 305 feet) 25X1 When last sighted on this ship was in the West Basin rea. It had left the shipperd, possibly in company with an "E-IT" Class SSGN previously noted alongside the West Basin (missile loading) Quay. It is noted that its present position along the Main Quay in Berthing Space No. 1 is the same berthing space where an "E-IT" missile loading operation was observed in See Annotation 21, Figure 7 and 25X1 25X1	25x1 × 25X1 × 25X1
14	. Unidentified Yard Craft	
5	5. Small Barge (LOA approximately	
6	"E-II" Class SSCN (visible waterline length approximately 385 feet) This submarine is berthed outboard of a rectangular submarine support barge and is positioned bow toward the perpendicularly-moored floating dock. Floating screens are located outboard of the Numbers 1, 3, and 4 missile launchers. 25X1	
	The "E-II" Class SSGN which occupied this berthing space between	The
	This submarine could equate to one of three possibilities: (1) continued outfitting of a submarine leunched in [2] an operational submarine back for refit; or (3) a recently launched new construction submarine. Baced upon the foregoing it	25X1
	- 13 - 25X1	7
	TOP SECRET 25X1	

25X1	TOP SECRET Approved For Release 2003/05/15 : CIA-RDP79T00919A000200 <u>410001-5</u>	25X1
	IMAGERY ANALYSIS SERVICE	25X1
	appears that the first possibility (continued outfitting) is the least likely in view of the long outfitting time that would be involved. Of the latter two possibilities (refit or new construction) neither at this time can be considered more likely than the other. It can be stated that the "E-II" construction rate has dropped markedly, if not completely, when compared with earlier observations. However, up to now we have not had enough evidence to identify an "E-II" refit at the Main Quay.	25X1
25X1	7. Small rectangular support barge (LOA approximately 95 feet)	
20/(1	8. Six Probably Cylindrical Objects	
25X1	The length of two of the three objects nearest the crane base is approximately The lengths of the three objects furthest from the crane base are approximately the same but shadows obscure their endpoints. The widths/diameters of these objects are roughly each. These objects were not present on the quay in	25X1 25X1
	9. New Class Ballistic Missile Submarine (visible waterline length approximately 410 feet) Heavy shadows and lack of stereo coverage limit interpretation of topside detail. No suggestion of ballistic missile tubes is visible on this coverage of the submarine. The most significant new detail visible is the presence of a sail-mounted diving plane. A faintly visible circular image, roughly 15 feet in diameter, is located roughly 55 feet from the apparent after edge of the sail. It cannot be determined from this photography if this imagery is a permanent fixture within the submarine. The outer deck plating of this submarine has been stripped away for a distance of at least 20 feet beginning at a point roughly 115 feet aft of the after edge of the sail. The darkness of this depression suggests that it may extend through the pressure hull of the sub-	
25X1	marine.	
25X1	10. Rectangular Submarine Support Barge (LOA approximately 190 feet)	
25X1	11. Rectangular Submarine Support Barge (LOA approximately 190 feet) The new submarine and the two 190-Toot barges straddling it remain in the identical position as they were when last observed in	25X1
	12. Unidentified Craft (LOA approximately 80-85 feet) Eight small objects, each no greater in size thanin width/ diameter, are positioned in two rows of four on the amidships deck of this craft.	25X1
25X1	13. Large Missile Target Barge (YAGT)	

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25X1

25X1

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25X1

14. "N" Class SSN in Floating Dock
The submarine's length-overall measures approximately 360 feet. The submarine appears to be cut through to the pressure hull by an opening approximately 25 feet long beginning approximately from the bow. No sail can be discerned on the submarine on this monoscopic coverage. The bow-mounted diving planes are extended. The submarine's position within the dock is identical to that of its last observation

25X1

25X1

25X1

25X1

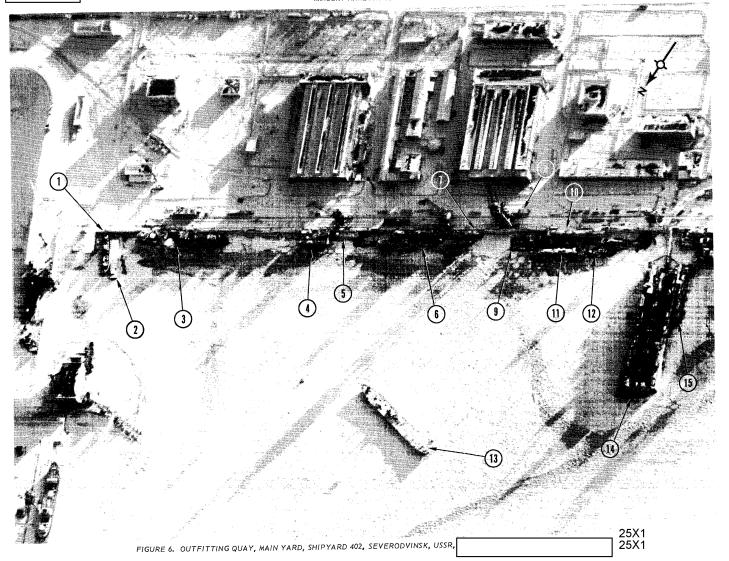
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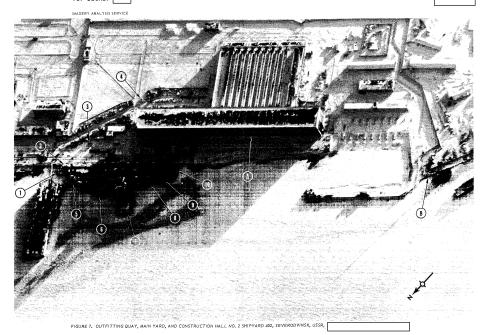
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	TOP SECRET 25X1 25X1
	IMAGERY ANALYSIS SERVICE 25X1
LO	IPYARD : NAVAL BASE AND SHIPYARD 402 CATION : SEVERODVINSK, USSR C COORDS: 64-35N 039-50E
	KEY TO NUMBERED ANNOTATIONS ON FIGURE 7
l.	Unique Auxiliary (visible length approximately 215 feet) 25X1
2.	Rectangular Submarine Support Barge (IOA approximately 190 feet) 25X1 25X1
3.	Open Cylindrical Frame or Section (outer diameter
4.	Possible Frame for Submarine Hull (outer diameter approximately 25X1 feet; inner diameter approximately
5.	"PM-124" Class YRSN (visible length approximately 280 feet) The bow of this ship is obscured by the jib of the large floating crane.
6.	Probable "TOPLIVO-2" Class YO (LOA approximately 25X1 Superstructure placement aft, a long centerline catwalk, and length-overall contribute to this identification.
7.	Very Large Floating Crane 25X1
8.	Unidentified Small Yard Craft
9.	Floating Dock Containing a Probable "N" Class SSN The stern fin of the submarine can readily be discerned toward the west end of the dock in the identical position as the stern of an "N" Class observed in this dock in

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25X1		
2 5X1	10.	Unidentified Parge Berthed across Open End of Floating Dock (IOA approximately 90 feet) This craft most closely resembles a 90-foot barge observed at this berthing space outboard of an "N" Class SSN in See Anno-
		KEY TO FACILITY ANNOTATIONS ON FIGURE 7
	Α.	Construction Hall Number 2 The snow melting pattern visible on the roof of this construction hall indicates that the entire two-bay shed is heated. This activity indicator
25X1		is far more pronounced in when only the eastern end of one bay was noticeably clear of snow. Interim winter coverage showed the major buildings either all snow-covered or all snow-free, thereby precluding an assessment of
25X1		relative interior activity levels. On the boreasy [Figure 1 of this report] the only major buildings devoid of significant snow cover are a large portion of the two construction halls and the main building at the Yagry Island Muclear Submarine Special Support Facility.
	В.	Quay Under Construction This eastermost end of the West Basin Quay had been undeveloped until the present. The new quay extension, now in mid-construction, measures approximately 350 feet in length and will link the West Basin Quay with the Side Launch Basin.

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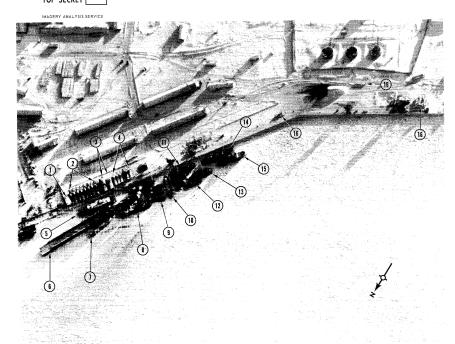
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25X1 Approved For Release \$\(\frac{25}{25}\)\(\frac{3}{5}\)\(\frac{15}{5}\): CIA-RDP79T00919A000200410001-5 25X1	TOP SECRET MAGERY ANALYSIS SERVICE
	SHIFYARD : NAVAL BASE AND SHIFYARD 402 ICOMMION : SEVERODVINEK, USER GEO COORDS: 64-35N 039-50E
25X1	KEY TO ANNOTATIONS ON FIGURE 8
25X1 25X1	1. Unidentified Cylindrical Chiest on Guay. This object is approximately 90 feet in length by in dismete and is resting in a credic-like device. A solid convex "cop" is positioned across the transverse end of this object nearest the quay edge. Imagery probably equating to this object was visible but not report on poor quality photography of
25X1	although the blocks upon which it is probal now pertine serve winible. This owen of the Next Paris from the reasons sently separated from Construction Hull No. 2 and the shipyard crore by a high fence and an unbridged ditch.
25X1	2. Bight Probable Folish "TR-40" Class MSB on Quay
25X1	 Dro Probuble "F-6" class FT Halls (LOA of each approximately 8) feet To is not possible to determine if these cruft are reflectors.
25X1	4. Six Probable "NYRYAT-2" Class YDT on Quay (IOA of each approximately 70 feet)
	5. Possible Floating Workshop (LOA approximately 215 feet)
38X1	6. Unoccupied Large Transporter Dock with Cut-down Sidewalls at the Ste Principal approximate dimensions for this dock are: overall length hU0 feet; inside length - 390 feet; inside with - 35 feet. A simil dock was last observed at the West Bush Pier Area in
25X1	This is the second winter that a MHO-foot transporter dock has been observed borthed in this area of the West Basin Quay - apparently assisting the break-up of the issert the canal system prior to its return to Corkiy. See Anotherion 1, Lent CC V Tiest transport schedules from Corkiy see Anotherion 3, Figure 3 of this report.
957/4	. Unidentified Sand Craft (704 approximately 131 feet)

25X1 25X1 25X1	2. Fight Probable Polish "TR-hO" Class MSB on Quay 3. Two Probable "F-6" Class FT Halls (LOA of each approximately 35 feet) It is not possible to determine if these craft are equipped with radar reflectors. 4. Six Probable "NYRYAT-2" Class YDT on Quay (LOA of each approximately TO feet)
2 5 X 1	5. Possible Floating Workshop (IOA approximately 215 feet) 6. Unoccupied Large Transporter Dock with Out-down Sidewalls at the Stern Principal approximate dimensions for this dock are: overall length-blb feet; inside length - 390 feet; inside width - 35 feet. A similar dock was last observed at the West Bashr Per Are in the August Stern Community of the last of the Nest Bashr Quay - apparently smalling the brenk-up of the ine on the conal system prior to its return to Certify. See Jacobston 11.
25X1 25X1 Approved For Release 2003/05/15 : CIA-RDP79T00919A000200410001-5	TOTAL TERMS of The strangport schedules (rom conting as American). For an access Figure 2 of this report. Unicentified Yerd Craft (100 approximately 131 fest) - 10 - TOP SECRET

25X1		
25X1	8.	Possible "TOPLIVO-2" Class YO (LOA approximately 170 feet) The three craft inboard of this ship cannot be identified. See Anno-
25X1	9.	Three Probable "TOFLIVO-1" Class YOS (LOA of each roughly 100 feet) Catwalks, superstructure placement aft, and relative size contribute to this identification.
	10.	Unidentified Two-Hatch Barge (LOA approximately 135 feet)
25X1	11.	Unidentified Vessel (LOA
	12.	Possible YTM (visible length approximately 125 feet)
	13.	Unidentified Auxiliary (LOA approximately 215 feet)
25X1	14.	Unidentified Vessel (LOA approximately
25X1	15.	Probable OKHTENSKIY Class ATR (LOA approximately 150 feet)
	16.	Possible Fuel Storage Drums A total of 37 such drums are visible at three areas on the quay.

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25X1 FIGURE 8. QUAY AREA, WEST BASIN, SHIPYARD 402, SEVERODVINSK, USSR, 25X1

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25X1		
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25X1	IMAGERY ANALYSIS SERVICE	
	SHIPYARD : NAVAL BASE AND SHIPYARD 402 LOCATION : SEVERODVINSK, USSR GEO COORDS: 64-35N 039-50E	
	KEY TO NUMBERED ANNOTATIONS ON FIGURE 9	
25X1 25X1	 Probable "J" Class SSG (visible waterline length roughly 275 feet) A black depression in the after hull similar to the after deflector 	
25X1 25X1	cavity on the "5" and a sail shadow similar to that of the "5" Class SSS observed at this pier in contribute to this identification.	
25X1 25X1 25X1	By a total of six "j" Class SSGs were accounted for as having approved at Severodyinsk from Gorkiy and the Annex to DDI/IAR-83044). Analysis of coverage of the Gorkiy shipyard indicates that a large transporter dock containing a "j" Class	25X1
25X1	See DDI/IARS 83006 and 83007. The only transporter	
25X1	dock visible at Severodyinsk in was berthed in the	
25X1	and was probably the same dock. This evidence indicates, therefore, that no "U" Class SSG had arrived at Severodvinsk between	
25X1 25X1 25X1	The only transporter dock visible at Severodvinsk on the present mission is located along the Kest Basin Quay. This dock is in a different position and is believed to a different dock from the one observed at Severodvinsk in it probably is the dock which left Corkip between and thus would represent the seventh "" Class to have come from Corkiy	05.74
		25X1
25X1	2. "T-58" Hull (possibly the ASR version) - LOA roughly 230 feet Hull outline, relative length, lifeboat placement, and the apparent lack of a gummount forward contribute to this assessment. No "1-58" Class MSF or ASR have previously been identified at Severodvinsk on shotography. 3. Probable Barge (LOA approximately 155 feet)	25X1
	4. Floating Crane (Approximate platform dirensions - Ihis crane has not previously been observed at Shipyari 402.	
25X1		
25X1		

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9. Three large Rectangular Flatforms (approximately 175 by 15 feet)
No of these Clat platforms appear to be devoted of significant topside datal.). One may have 1 for experiencements establishing. They
state the could prostily serve as work harges, know of those platforms has previously been signed at Exemptical at Exempticals

8. Probable Wary (DA approximately)

NY 10 PARLIETY ABBORNING ON FIRERS 9

A. Probable Wary (DA supposition on FIRERS 9

A. Probable Wary (DA supposition on FIRERS 9

TOUGHTY 125 feet. It is present height is

TOUGHTY 125 feet.

25X1

25X1 25X1

25X1 25X1 - 22
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FIGURE 9. PIER AREA, WEST BASIN, SHIPYARD 402, SEVERODVINSK, USSR,

25X1

25X1 25X1 25X1

25X1 25X1

25X1 IMAGERY ANALYSIS SERVICE SHIFYARD : NAVAL BASE AND SHIFYARD 402 LOCATION : SEVERODVINSK, USSR GEO COORDS: 64-35N 039-50E 25X1 25X1 25X1 25X1 25X1 25X1 25X1

TOP SECRET KEY TO ANNOTATIONS ON FIGURE 10 1. BUSSARD Class AKL (10A approximately 320 feet)
Two unidentified craft are berthed sgainst the BUSSARD's port side. Two Floating Vertical Screens
Two unidentified small craft are between the screens and the quay. The
outboard craft measures approximately 99 feet in length and the inboard
craft measures approximately 80 feet in length. craft measures approximately 80 feet in length.

5. Three Fossible Fier Sections under Construction on Guay
Enchof these rectangular sections measures approximately into by a feet. No superstructure is presently visible on any of the three objects which leads to their identification as pier sections rather than work barges. A rectangular work barge 130 feet in length has, however, previously been observed under construction on this quay. See Anno
1. Rectangular Submarine Support Barge (LOA approximately 150 feet)
This Gorkly-built barge has arrived at Severodvinsk from Shipyard 112 since approximately 150 feet)
This Gorkly-built barges were present at Shipyard 402. In a total of 10 such barges are present at Shipyard 402. In a total of 10 such barges are present at Shipyard 402. In a total of 10 such barges are present at Shipyard 112; and in of the same year only three rectangular YRSN from Gorkly Shipyard 112; and in of the same year only three rectangular YRSN from Gorkly in the See the note on page 5 of DDI/TAR-33027

5. "G" Class SSE (visible waterline length approximately 320 feet) "G" Class SSB (visible waterline length approximately 320 feet) The missile tube canopies across the top of the sail have either been removed or are open, therby exposing the tops of the three missile tubes. The dismeter of each tube cover is approximately the same and siter edges of the sail appear to be conficuled, and the after deck plating appears to be removed for a distance of 80 feet from the sail. Exo floating vertical screens are outboard of the sail. 25X1 "G-II" Class SEP (visible usterline length approximately 315 feet)
The lack of cleavages (lens-shaped opening) across the completely intact sail housing provides the first identification of a "G-II" class SSB to be sighted at Severodvinax on gootography.

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evidence through converted between shortly thereafter; the seversion in the fourth "G" (the prototype indicates, that one "G" was and left the yard cond and third "G" Class arrived for condand are still being worked on. The "G-II") arrived for an unspecified rework

The above conclusion is based on the following observations:

The two "G" Class SSBs (Annotation 5 and 6) presently at this quay are berthed roughly 100 feet further east than the two possible "G" Class SSBs observed at this quay in Thus, SSBs now in the Wet Basin (Annotation 10, Figure 11, of this report) is in a different position than the possible "G" Class SSB in the basin in Thus, this total of three "G" Class SSBs compares to the three possible "G" Class last observed at Severodvinsk in

The "G-II" presently observed at the quay is believed to be either a new arrival (the prototype) or a recently modified "G" which could have left the Wet Basin. Based upon "G" Class sightings in the left Severodvinsk in the list later seen with its sail intact in less later seen with its sail intact in less later seen with its sail intact in less later seen with its sail of the left severodvinsk in the left severod with its sail torn down while a completed "G-II" is observed in an identical position as the "G" at Annotation 5 above is a nearly complete "G-II" and the inboard "G-II" is the prototype "G-II" in for a major refit. The remaining "G" Class SEP undergoing conversion in the wet basin is later observed (in in the identical position as it is now seen in

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FIGURE 10. MAIN QUAY, YAGRY ISLAND REPAIR FACILITY, SHIPYARD 402, SEVERODVINSK, USSR,

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25X1 25X1 Approved For Release 2003/05/15 : CIA-RDP79T00919A00020041:	0001-5
25X1	TOP SECRET
	SHIFYARD : NAVAL BASE AND SHIFYARD 402 LOCATION : SEVERODVINSK, USER GEO COORDS: 64-35N 039-50E
25X1	KEY TO ANNOTATIONS ON FIGURE 11
25X1 25X1	1. Probable OKHTENSKIY Class ATR
25X1	2. Large Missile Target Barge YAGT (visible LOA approximately
25X1	3. Unidentified Barge L. "Z-V" Class SSB (visible waterline length approximately 200 feet)
25X1 25X1 25X1	5. "N" Conversion Class TWIN CYLINDER Type SSG Only the top of the sail, the starboard missile tube, and the bow of the submarine are visible. Dimensions for these areas correspond to those obtained for the TWIN CYLINDER SSG previously berthed at the Naval Base in all of the craft previously berthed at the same pier as the TWIN CYLINDER in Ser presently berthed at this end of the Main Quay to the Yagry Island Repair Facility.
25X1 25X1 25X1	6. BOLVA Class APL (LOA approximately 365 feet) 7. Small Two-Hatch Barge (LOA roughly 65 feet) This is shorter than the 85-foot barge of similar configuration associated with nuclear submarine overhaul in the Wet Basin. See Annotation 11, 8. Large Portal Jib Crane This crane has been assembled since than any of the other three cranes on this quay and approximates the
25X1	capacity, although not the height, of the large crane at the Cutfit-ILLEGN
25X1	
25X1	25

however, the after edge of the sail is partially obscured by the shadow from the Wet Basin wall. These dimensions are more compatible with the "H-I" than the "H-II". Other than the observation of a peaked-roof weather shed approximately 115 feet from the stern of the submarine and an apparently intact sail, very little additional topside detail is discernible due to shadow.

A possible "G" Glass SSB occupied this position within the Wet Basin A large unidentified submarine, possibly equating to an "H-II" Class SSBN previously sighted in the estuary, was observed on hother lodge of the Wet Basin of the Wet Basin enorthern lodge of the Wet Basin enorthern lodge of the Wet Basin enorthern lodge of the Wet Basin entrance) is obscured by shadow. A set of peaked-roof weather sheds covers the forward half of the sail. The after portion of the sail appears to be intact. No submarine was sighted in this position within the Wet Basin on only end to the sail was sighted in this position within the Wet Basin on only end to the sail was sighted in this position within the Wet Basin on the "G Class SSB observed against the Main Quay to the Yagry Island Repair Facility on the Sail. The sail appears to one of the two possible "G" Class SSB observed against the Main Quay to the Yagry Island Repair Facility on the Sail.

12. Rectangular Submarine Support Barge (visible length approximately 120 reet)

On only one rectangular barge was located in the Wet Basin.

13. Probable "N" Class SSN (visible IGA roughly 355 feet)

A curved "staybrite" sonar belt similer to that on the bow of the "N" is visible as the end-point nearest the basin entrance to the estuary. The stern is hidden by the basin wall. A 360-roof "M" Class SSN (with barge outboard) is later observed in this dientical position in this coverage. No other topside detail is visible.

A submarine having a sail at least 80 feet long was observed along this ledge on

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25X1 25X1

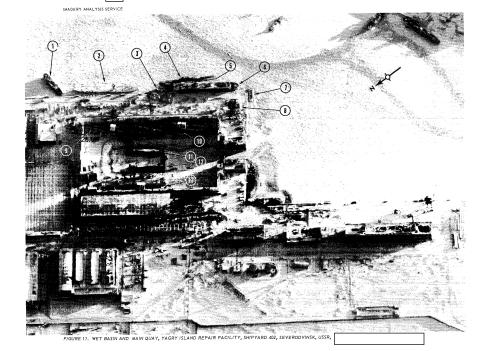
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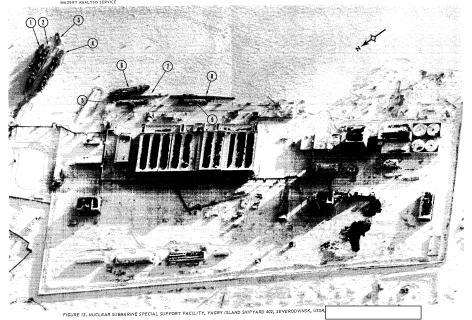
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	IMAGERY ANALYSIS SERVICE
LO	IPYARD : MAVAL BASE AND SHIPYARD 402 NATION : SEVEROUVINSK, USSR O COORDS: 64-35N 039-50E
	KEY TO ANNOTATIONS ON FIGURE 12
1.	"TOPLIVO-2" Class YO (LOA approximately 170 feet)
2.	RIGA Class DE
3.	Small Barge (LOA roughly 70 feet)
4.	RIGA Class DE
5.	Probable RADCON/DECON Submarine Support Barge (visible LOA roughly 170 feet)
6.	ZEYA Class YRSN Foor contrast and shadow preclude interpretation of the lash-up between the ZEYA and the "N" Class SSN. See Annotation 8, Figure 1C,
7.	"N" Class SSM (visible waterline length roughly 350 feet) The hull plating and sail housing appear intact on this submarine. Should this submarine equate to one seen in
2.	"H-II" Class SSEW (visible waterline length approximately The distance between the visible bow end-point and the top leading edge of the sail measures roughly 75 feet. The length of the sail across the top measures approximately 80 feet. The best estimate of the length of the sail at the deckline is roughly 95 feet; however, the deckline sail extremities are difficult to delineate. All of the above dimensions, however, are more compatible with the "H-II" rather than the "H-II".
	The hull plating and sail housing appear intact on this submarine.
	Should this submarine equate to one previously seen at Severcdvinsk, the most likely condidate would be the large unidentified submarine observed on
9.	Probable RADOOM/SECON Submarine Support Barge (LOA syrroxinately 130 feet)
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NOTE: A possible "TOPLIVO-2" Class YO, a 70-foot yard craft, and a 140-foot two-match barge are located at a pier (not shown on Figure 12) to the east of the RIGA DE. The 140-foot barge was previously observed at the Maclear Submarine Special Support Facility in

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25X1	IMAGERY ANALYSIS SERVICE REFERENCES
25X1	Comments
	1. CIA. DDI/IAR-83048, Haval Base and Shiryard 402, Severodvinsk,
25X1	 DI/TAR-SOIS, Severolvinch Nevel Rose and Stinyard MC. Severodvinck, USSR - Precision Plot, Functional Analysis and Borthing Space Delineation, August 107 TDF SECRET
	25X1 3. CIA. PIR-67315, Naval Base and Shipyard NO2, Severodvinsk,
25X1	
25X1 25X1	L. CIA. PIR-77710, Naval Base and Shipyard NO2, Severodvinsk,
25X1	5. CIA. PIR-67167, Severodvinsk Naval Base and Shipyard 402, Severodvinsk, USSR,
25X1 25X1	6. CIA. DDI/IAR-83044, Naval Base and Snivyard 402, Severodvinss.
25X1	7. CIA. PIR-77008, Submarine Hull Sections, Severodvinek Naval Base and Shipyard 402, Severodvinek, USSR,
25X1	S. CIA. FIR-67311, Naval Base and Shipward 402, Severodvinsk,
	2. CLA. EIR-57324, flaval Base and chicycup 4.5, experovings.
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10. CIA. DDI/IAR-83006, Gorkiy Shipyard 112, Gorkiy, USSR,

11. CIA. DDI/IAR-83007, Gorkiy Shipyard 112, Gorkiy, USSR,

12. CIA. DDI/IAR-83027, Gorkiy Shipyard 112, Gorkiy, USSR,

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Requirement

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IAS Project

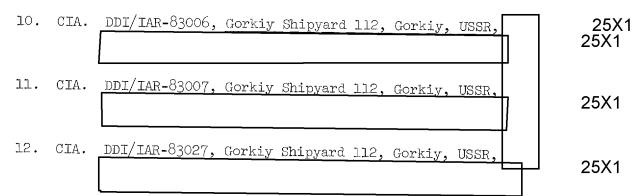
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Requirement

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